Refine Search

Search Results -

Terms	Documents
L5 same interrupt	32

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
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EPO Abstracts Database
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IBM Technical Disclosure Bulletins

Search:
L6

Refine Search

Recall Text ⇔   Clear   Interrupt

Search History

DATE: Tuesday, September 27, 2005   Printable Copy   Create Case

Set Name	Query	Hit Count	Set Name
side by side			result set
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L6	L5 same interrupt	32	L6
L5	L4 same data	170	L5
L4	(amount near5 data) same transfer$4 same USB	170	L4
L3	"amount of data" same transfer$4 same USB	0	L3
L2	"amount of data" same (transfer near5 mode)	0	L2
L1	"amount of data" near10 "transfer mode"	0	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L6	0

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
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IBM Technical Disclosure Bulletins

Search:

L7

Refine Search

Recall Text ⇔   Clear   Interrupt

Search History

DATE: Tuesday, September 27, 2005   Printable Copy   Create Case

Set Name	Query	Hit Count	Set Name
side by side			result set
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L7	L6	0	L7
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L6	L5 same interrupt	32	L6
L5	L4 same data	170	L5
L4	(amount near5 data) same transfer$4 same USB	170	L4
L3	"amount of data" same transfer$4 same USB	0	L3
L2	"amount of data" same (transfer near5 mode)	0	L2
L1	"amount of data" near10 "transfer mode"	0	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
(358/426.03 |358/448 |370/229 |370/230 |370/465 |709/227 |709/228 |709/229 |709/230 |709/231 |709/232 |709/233 |709/234 |710/313 |710/306 |710/314 |710/100 |710/33 |710/34 |710/29 |710/106 |710/48 |710/60 |710/260 |713/502).ccls.	19787

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L1

Refine Search

Recall Text ⬌   Clear   Interrupt

Search History

DATE: Tuesday, September 27, 2005   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L1	710/313,306,314,100,33,34,29,106,48,60,260;709/227-234;370/229,230,465;358/426.03,448;713/502.ccls.	19787	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 and L2	28

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
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Search:

L3

[Refine Search]

[Recall Text] [Clear] [Interrupt]

Search History

DATE: Tuesday, September 27, 2005   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
L3	l1 and L2	28	L3
L2	(amount near5 data) same transfer$4 same (USB or "universal serial bus")	174	L2
L1	710/313,306,314,100,33,34,29,106,48,60,260;709/227-234;370/229,230,465;358/426.03,448;713/502.ccls.	19787	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L2 and USB	32

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
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Search:
L3

[Refine Search]

[Recall Text] [Clear] [Interrupt]

Search History

DATE: Tuesday, September 27, 2005   Printable Copy   Create Case

Set Name	Query	Hit Count	Set Name
side by side			result set
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L3	L2 and USB	32	L3
L2	L1 same (amount near2 data)	34	L2
L1	((bulk or burst) near5 transfer) same ((interrupt or mormal) near5 transfer)	314	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L2 and USB	32

Database:

```
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins
```

Search:

```
L3
```

Refine Search

Recall Text ⇔   Clear   Interrupt

Search History

DATE: **Tuesday, September 27, 2005**   Printable Copy   Create Case

Set Name	Query	Hit Count	Set Name
side by side			result set
	DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
L3	L2 and USB	32	L3
L2	L1 same (amount near2 data)	34	L2
L1	((bulk or burst) near5 transfer) same ((interrupt or mormal) near5 transfer)	314	L1

END OF SEARCH HISTORY

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((bulk or burst<in>metadata) <and> (transfer*<in>metadata))<and> (predetermin [»]

☐ Check to search only within this results set

» Key

Display Format: ◉ Citation   ○ Citation & Abstract

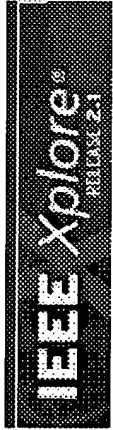| IEEE JNL | IEEE Journal or Magazine |
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☐ 1. **Performance analysis of burst level bandwidth allocation using multipath routing reservation**
Ashibani, M.; Mashao, D.; Nleya, B.;
EUROCON'2001, Trends in Communications, International Conference on.
Volume 1, 4-7 July 2001 Page(s):70 - 76 vol.1
Digital Object Identifier 10.1109/EURCON.2001.937766

AbstractPlus | Full Text: PDF(444 KB)   IEEE CNF

☐ 2. **A multi level real-time bandwidth allocation scheme for ATM networks**
Ashibani, M.; Mashao, D.; Nleya, B.;
EUROCON'2001, Trends in Communications, International Conference on.
Volume 2, 4-7 July 2001 Page(s):487 - 491 vol.2
Digital Object Identifier 10.1109/EURCON.2001.938168

AbstractPlus | Full Text: PDF(376 KB)   IEEE CNF

☐ 3. **Techniques for the retrieval of aerosol properties over land and ocean using multiangle imaging**
Martonchik, J.V.; Diner, D.J.; Kahn, R.A.; Ackerman, T.P.; Verstraete, M.M.; Pinty, B.; Gordon, H.R.;
Geoscience and Remote Sensing, IEEE Transactions on
Volume 36, Issue 4, July 1998 Page(s):1212 - 1227
Digital Object Identifier 10.1109/36.701027

AbstractPlus | References | Full Text: PDF(484 KB)   IEEE JNL.

☐ 4. **Thermal characterization of a mercury arc lamp for a projection display system**
Bush, B.; Shu Li; Kelley, D.;
Semiconductor Thermal Measurement and Management Symposium, 2004. Twentieth Annual IEEE
9-11 Mar 2004 Page(s):249 - 254
Digital Object Identifier 10.1109/STHERM.2004.1291331

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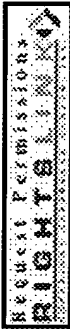
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Performance analysis of burst level bandwidth allocation using multipath routing reservation

Ashibani, M. Mashao, D. Nleya, B.
Dept. of Electr. Eng., Cape Town Univ., Rondebosch , South Africa;

Abstract

The use of high-speed networks to carry bursty traffic, such as IP packets, image, compressed video etc., over ATM networks, requires a new thinking. Instead of controlling connections, we are faced with the problem of controlling the bursts. Thus the new problem is how to control the **bursts** and how the resources are allocated optimally for the bursty applications. This paper provides performance analysis of a **burst** level bandwidth allocation algorithm based on multipath/multilinks routing to allocate resources efficiently for real time traffic, where fast reservation of resources in the network is crucial, as the resource availability changes rapidly. In this scheme, different **predetermined** paths are searched for the extra required resources to accommodate **bursts** from real time applications in multiple path routes. In the paper, the performance of multipath routing is compared to a single path reservation approach without reattempt (i.e., retry after a failure) and with reattempt allowed. The main performance metrics considered in this paper are network throughput, blocking probability and reservation time delay. The analysis shows that while the multipath reservation algorithm has better performance compared to single path reservation algorithms (either persistent or non persistent), the **burst-by-burst** connection setup time using multipath reservation is significantly lower than for the single path reservation approaches

Index Terms
Inspec

Controlled Indexing
asynchronous transfer mode bandwidth allocation delays multipath channels packet switching resource allocation telecommunication network routing telecommunication traffic

Non-controlled Indexing
ATM networks IP packets blocking probability burst level bandwidth allocation compressed video high-speed networks image multilinks routing multipath routing reservation network throughput real time traffic reservation time delay resource allocation single path reservation approach

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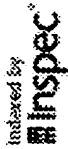
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